

HONEYWELL, BURDICK & JOHNSON -- ISOPROPYL ALCOHOL -- 6810-00-543-7915

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Product Identification
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Product ID:ISOPROPYL ALCOHOL

MSDS Date:06/01/2000

FSC:6810

NIIN:00-543-7915

Status Code:A

MSDS Number: CLHFD

=== Responsible Party ===

Company Name:HONEYWELL, BURDICK & JOHNSON

Address:1953 SOUTH HARVEY STREET

City:MUSKEGON,

State:MI

ZIP:49442

Country:US

Info Phone Num:800-368-0050

Emergency P

hone Num:800-707-4555

Resp. Party Other MSDS Num.:B&J0323

Preparer's Name:NOT PROVIDED

Chemtec Ind/Phone:(800)424-9300

CAGE:UO622

=== Contractor Identification ===

Company Name:HONEYWELL, BURDICK & JOHNSON

Address:1953 SOUTH HARVEY STREET

Box:City:MUSKEGON,

State:MI

ZIP:49442

Country:US

Phone:800-368-0050

CAGE:UO622

Company Name:TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-01-M-ZF08

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Composition/Information on Ingredients
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Ingred Name:ISOPROPYL ALCOHOL

CAS:67-63-0

RTECS #:NT8050000

= Wt:100.

Other REC Limits:NOT PROVIDED

OSHA PEL:980 MG/M3;400 PPM

ACGIH TLV:983 MG/M3;400 PPM

ACGIH STEL:1230 MG/M3;500 PPM

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL, RAT) 5045 MG/KG

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SKIN: REPEATED EXPOSURES MAY RESULT IN

BURNING, ITCHING, REDNESS AND DERMATITIS. EYES: CONTACT PRODUCES INTENSE STINGING AND BURNING SENSATIONS. PROLONGED CONTACT TO LIQUID MAY CAUSE TEMPORARY DAMAGE TO EYES, BUT HEALING HAS BEEN PROMPT. INHALATION: CAN CAUSE RESPIRATORY TRACT AND THROAT IRRITATION, HEADACHES, SHORTNESS OF BREATH AND SYMPTOMS SIMILAR TO INTOXICATION. OVEREXPOSURE CAN PRODUCE SEVERE CNS DEPRESSION, COMA AND POSSIBLY FATAL RESPIRATORY FAILURE. INGESTION: LETHAL DOSE IN AN ADULT

IS 240 ML BUT AS LITTLE AS 20 ML MAY CAUSE SEVERE NAUSEA, ABDOMINAL PAIN, BLEEDING, CNS DEPRESSION. DELAYED EFFECTS: NONE KNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SKIN: REPEATED EXPOSURES MAY RESULT IN BURNING, ITCHING, REDNESS AND DERMATITIS. EYES: CONTACT PRODUCES INTENSE STINGING AND BURNING SENSATIONS. INHALATION: CAN CAUSE RESPIRATORY TRACT AND THROAT IRRITATION, HEADACHES, SHORTNESS OF BREATH AND SYMPTOMS SIMILAR TO INTOXICATION. OVEREXPOSURE CAN PRODUCE SEVERE

CNS DEPRESSION, COMA AND POSSIBLY FATAL RESPIRATORY FAILURE. INGESTION: MAY CAUSE SEVERE NAUSEA, ABDOMINAL PAIN, BLEEDING, CNS DEPRESSION.

Medical Cond Aggravated by Exposure:NOT PROVIDED

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First Aid Measures
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First Aid:SKIN: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL

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ASSISTANCE. INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF VICTIM IS NOT BREATHING ADMINISTER ARTIFICIAL RESPIRATION ACCORDING TO YOUR LEVEL OF TRAINING AND OBTAIN PROFESSIONAL MEDICAL ASSISTANCE IMMEDIATELY. INGESTION: IF PATIENT IS CONSCIOUS, RINSE MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS INSTRUCTED TO DO SO BY A PHYSICIAN. GET IMMEDIATE MEDICAL ATTENTION. ADVICE TO PHYSICIAN: NO SPECIFIC INSTRUCTIONS. TREAT SYMPTOMATICALLY.

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=== Fire Fighting Measures =====

Flash Point Method:CC
Flash Point:=11.7C, 53.F
Autoignition Temp:=398.9C, 750.F
Lower Limits:2.0
Upper Limits:12.0
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE OR ALCOHOL RESISTANT FOAM. WATER MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO REDUCE VAPORS AND TO COOL CONTAINERS EXPOSED TO FIRE.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. DO NOT RELEASE RUNOFF FROM FIRE CONTROL METHODS TO SEWERS OR WATERWAYS. KEEP FIRE EXPOSED CONTAINERS COOL AND REDUCE VAPORS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:FIRE HAZARD WHEN EXPOSED TO HEAT, FLAME OR OXIDIZERS. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE TO AN IGNITION SOURCE AND FLASH BACK. VAPOR MIXTURES ARE EXPLOSIVE.

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===== Accidental Release Measures =====

Spill Release Procedures:IN CASE OF SPILL: (WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT.) ELIMINATE SOURCES OF IGNITION. ISOLATE SPILL AREA. STOP LEAK IN A SAFE AND PRACTICAL MANNER. (IF LEAK CANNOT BE STOPPED EASILY AND SAFELY, ADVISE TRAINED EMERGENCY RESPONSE PERSONNEL OF THE SITUATION.) USING INERT MATERIAL (SUCH AS GROUND CORNCOBS) DIKE SPILLED SOLVENT TO PREVENT IT FROM RUNNING INTO WATERWAYS. REPORT AS REQUIRED.
Neutralizing Agent:NOT RELEVANT

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN AN AREA DESIGNED FOR STORAGE

AGE

OF FLAMMABLE LIQUID. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM IGNITION SOURCES, AND OTHER FIRE HAZARDS.

Other Precautions:KEEP AWAY FROM HEAT, OPEN FLAME OR OTHER HIGH TEMPERATURE SOURCES. AVOID CONTACT WITH SKIN, EYES AND CLOTHING; AVOID BREATHING VAPOR OR MIST. USE GOOD PERSONAL HYGIENE AND HOUSEKEEPING PRACTICES. HAND LE EMPTY CONTAINERS IN THE SAME MANNER AS WHEN THEY WERE FULL.

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Exposure C
ontrols/Personal Protection =====

Respiratory Protection:SEEK PROFESSIONAL ADVICE PRIOR TO RESPIRATOR SELECTION AND USE. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND, IF NECESSARY, WEAR A MSHA/NIOSH-APPROVED RESPIRATOR. FOR EMERGENCY OPERATIONS (CLEANING SPILLS, REACTOR VESSELS, OR STORAGE TANKS), WEAR AN SCBA. WARNING! AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

Ventilation:PROVIDE GENERAL OR LOCAL EXHAUST VENTILAT ION SYSTEMS TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW PERMISSIBLE TLV LEVELS. LOCAL EXHAUST VENTILATION IS PREFERRED.

Protective Gloves:WHERE CONTACT IS LIKELY, WEAR CHEMICAL RESISTANT GLOVES.

Eye Protection:SAFETY GLASSES. GOGGLES OR FACESHIELD

Other Protective Equipment:WHERE LIQUID CONTACT IS POSSIBLE IMERVIOUS COVERALLS ARE RECOMMENDED. TO MINIMIZE THE POSSIBILITY IN OTHER HANDLING AND STORAGE OPERATIONS, WEAR APPROPRIATE PPE TO INCLUDE CHEMICAL RESISTANT BOOT, APRON

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI = GASTROI NTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

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Physical/Chemical Properties =====

HCC:F2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=82.3C, 180.1F

Melt/Freeze Pt:=-88.C, -126.4F

Decomp Temp:Decomp Text:NOT PROVIDED
Vapor Pres:@20C 33MMHG
Vapor Density:AIR=1):2.1
Spec Gravity:(WATER=1.0):0.785@25C
Viscosity:NOT PROVIDED
Evaporation Rate & Reference:`3 (BUTYL ACET=1)
Solubility in Water:COMPLETE
Appearance and Odor:APPEARANCE: CLEAR, COLORLESS LIQUID. ODOR: SLIGHT ALCOHOL ODOR
Percent Volatiles by Volume:100
Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

STRONG OXIDIZERS, STRON ACIDS, RACTIVE METALS, INCLUDING ALUMINUM.

FORMS KETONES IN PRESENCE OF OXYGEN.

Stability Condition to Avoid:HEAT, SPARKS AND FLAME. DIRECT SUNLIGHT.

AVOID CONTACT WITH IGNITION SOURCES. VAPORS ARE FLAMMABLE.

CONTAINERS MAY RUPTURE VIOLENTLY IN FIRE AND TRAVEL A CONSIDERABLE DISTANCE.

Hazardous Decomposition Products:INCOMPLETE COMBUSTION CAN GENERATE CARBON MONOXIDE AND OTHER HAZARDOUS GASES.

===== Toxicological Information =====

Toxicological Information:LD50 (ORAL, RAT) 5045 MG/KG. SKIN IRRITATION

(RABBIT): 500 MG - MILD. EYE IRRITATION (RABBIT): 10 MG - MODERATE; 100 MG - MODERATE. DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: 8000 PPM/8 HR./DAY FOR 20 WEEKS (INTERMITTENT) CAUSED SENSORY CHANGE INVOLVING PERIPHERAL NERVES.

===== Ecological Information =====

Ecological:RELATIVELY BIODEGRADABLE. LC50 PIMEPHALES PROMELAS (FATHEAD MINNOWS) 11,160 MG/L/24 HR (STATIC BIOASSY IN LAKE SUPERIOR WATER AT 18-22 DEG. C.

LC50 PIMEPHALES PROMELAS (FATHEAD MINNOWS) 10.4 G/L/96 HR .

===== Disposal Considerations =====

Waste Disposal Methods:THE UNUSED PRODUCT IS A RCRA HAZARDOUS WASTE WITH ID NUMBER D001 IGNITABLE. THE INFORMATION OFFERED HERE IS FOR THE PRODUCT AS SHIPPED. USE AND/OR ALTERATIONS TO THE PRODUCT SUCH AS MIXING WITH OTHER MATERIALS MAY SIGNIFICANTLY CHANGE THE CHARACTERISTICS OF THE MATERIAL AND ALTER THE RCRA CLASSIFICATION AND THE PROPER D

ISPOSAL METHOD.

===== MSDS Transport Information =====

Transport Information:US DOT PROPER SHIPPING NAME: ISOPROPYL ALCOHOL.
US DOT HAZARD CLASS: 3, FLAMMABLE LIQUID. US DOT ID NUMBER: UN1219.
US DOT PACKING GROUP: I I. EMERGENCY RESPONSE GUIDE: 129.

===== Regulatory Information =====

SARA Title III Information:SARA TITLE III/CERCLA: "REPORTABLE
QUANTITIES" (RQS) AND/ OR "THRESHOLD PLANNING QUANTITIES" (TPQS):
NO

NE. SECTION 311 HAZARD CLASS: IMMEDIATE, FIRE. SARA 313 TOXIC
CHEMICALS: THE FOLLOWING INGREDIENT S ARE SARA 313 "TOXIC
CHEMICALS": ISOPROPYL ALCOHOL 100%.

Federal Regulatory Information:TSCA INVENTORY STATUS: LISTED ON THE
INVENTORY.

State Regulatory Information:NONE

===== Other Information =====

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